

AMENDMENTS TO THE CLAIMS

Please cancel claims 1-18 without disclaimer or prejudice.

Please add claims 19-53 as follows:

- 1     19.    A system for configuring a highly-available data processing system,  
2            comprising:  
3            (a)    an inspection agent adapted to:  
4                   (i)    automatically explore and inspect a production server;  
5                   (ii)   identify and collect a plurality of production server computer  
6                           parameters;  
7                   (iii)   generate a production server computer parameter database of  
8                           the production server computer parameters necessary to  
9                           configure the production server to be the highly-available data  
10                          processing system;  
11           (b)    an expert-system module adapted to:  
12                   (i)    read the production server computer parameter database;  
13                   (ii)   generate a project database comprising the production server  
14                           computer parameters, a plurality of default questions and a  
15                           plurality of additional questions, if any, and the respective  
16                           production server computer parameters derived from the

17                    answers used to define the highly-available data processing  
 18                    system;  
 19            (iii)    selecting from a plurality of predefined rules those rules  
 20                    pertinent to analyze the project database; and  
 21            (iv)    define the highly-available data processing system from the  
 22                    production server computer parameter database.

1    20.    The system for configuring a highly-available data processing system of  
 2           claim 19 further comprising a user-interactive module by which to display  
 3           the project database to a user.

1    21.    The system for configuring a highly-available data processing system of  
 2           claim 20 wherein the user-interactive module further comprises a menu by  
 3           which a user may enter additional answers to the questions and additional  
 4           information to the project database to define the highly-available data  
 5           processing system.

1    22.    The system for configuring a highly-available data processing system of  
 2           claim 20 wherein the user-interactive module permits a user to select the  
 3           computer parameters defining the highly-available data processing system.

1     23.   The system for configuring a highly-available data processing system of  
2           claim 19 wherein the expert system client-side module determines and  
3           selects additional questions that require answers in order to analyze the  
4           project database.

1     24.   The system for configuring a highly-available data processing system of  
2           claim 23 wherein the expert system client-side module automatically  
3           inspects the project database to determine answers to the additional  
4           questions.

1     25.   The system for configuring a highly-available data processing system of  
2           claim 19 wherein the computer processing parameters to define the highly-  
3           available data processing system comprise one or more of the following:  
4           names of one or more computer processing machines, types of the one or  
5           more computer processing machines, operating systems of the one or more  
6           computer processing machines, mass-storage connected to the one or more  
7           computer processing machines, magnetic tape storage connected to the one  
8           or more computer processing machines, a plurality of system values of the  
9           one or more computer processing machines, or one or more network  
10          attributes of the one or more computer processing machines.

- 1     26.   The system for configuring a highly-available data processing system of  
2           claim 19 wherein the computer processing parameters to define the highly-  
3           available data processing system comprises one or more file systems of the  
4           production server.
  
- 1     27.   The system for configuring a highly-available data processing system of  
2           claim 19 wherein the computer processing parameters to define the highly-  
3           available data processing system comprises one or more user libraries, one  
4           or more software objects, or data used by the production server.
  
- 1     28.   The system for configuring a highly-available data processing system of  
2           claim 19 wherein the computer processing parameters to define the highly-  
3           available data processing system comprises one or more user programs that  
4           exploit operating system commands relevant to the highly-available data  
5           processing system.
  
- 1     29.   The system for configuring a highly-available data processing system of  
2           claim 19 wherein the expert system client side module further generates  
3           one or more recommendations or corrective actions to define the highly-  
4           available data processing system.

1     30.    The system for configuring a highly-available data processing system of  
2           claim 29 wherein the expert system client side module further automatically  
3           implements the one or more recommendations or corrective actions to  
4           define the highly-available data processing system.

1     31.    The system for configuring a highly-available data processing system of  
2           claim 19 wherein the project database is a relational database.

1     32.    The system for configuring a highly-available data processing system of  
2           claim 19 wherein the default questions, the additional questions, the  
3           plurality of predefined rules, and the recommendations and corrective  
4           actions are structured as extensible markup language (XML) files.

1     33.    An apparatus to create a highly-available data processing system,  
2           comprising:

- 3           (a)    an interrogation agent to inspect a computer and to generate a  
4                  database having a plurality of computer parameters necessary to  
5                  define a highly-available data processing system;
- 6           (b)    a knowledge expert agent comprising a plurality of default inquiries, a  
7                  plurality of predefined expert rules, a plurality of secondary inquiries,  
8                  and a plurality of recommendations, suggestions, corrective actions  
9                  to define a highly-available data processing system;

- 10 (c) an automatic analysis engine to:
- 11 (i) apply the predefined expert rules to the plurality of computer
- 12 parameters;
- 13 (ii) to select any of the plurality of secondary inquiries based on
- 14 answers to the default inquiries and the predefined expert
- 15 rules to the computer parameters; and
- 16 (iii) to select any recommendations, suggestions, or corrective
- 17 actions determined by answers to the default and the
- 18 secondary inquiries and the predefined expert rules to
- 19 implement on the computer to define a highly-available data
- 20 processing system.

1 34. The apparatus to create a highly-available data processing system, as in  
 2 claim 33, wherein the interrogation agent stores the computer parameters  
 3 necessary to define a highly-available data processing system.

1 35. The apparatus to create a highly-available data processing system, as in  
 2 claim 33, wherein the automatic analysis engine generates a project  
 3 database, the project database comprising:

- 4 (a) the computer parameters;
- 5 (b) the default and the secondary inquiries used;
- 6 (c) the answers to the default and secondary inquiries; and

7 (d) the suggestions, recommendations, or corrective actions generated.

1 36. The apparatus to create a highly-available data processing system, as in  
2 claim 35, wherein the project database is stored on a client computer.

1 37. The apparatus to create a highly-available data processing system, as in  
2 claim 35, wherein the project database is stored in a repository.

1 38. The apparatus to create a highly-available data processing system, as in  
2 claim 33, further comprising a collocation agent that automatically  
3 collocates the computer parameters and creates a highly-available data  
4 processing system.

1 39. A method to configure a highly-available data processing system,  
2 comprising the steps of:

- 3 (a) automatically inspecting a production server to obtain a plurality of  
4 computer parameters necessary to configure the production server  
5 into the highly-available data processing system;  
6 (b) automatically invoking an expert-system client-side software agent;  
7 (c) the expert-system client side software agent automatically analyzing  
8 the plurality of computer parameters using an expert knowledge  
9 database.

1     40.   The method to configure a highly-available data processing system, as in  
2           claim 39, further comprising installing a server-side software agent onto the  
3           production server prior to the step of automatically inspecting the  
4           production server that performs the step of automatically inspecting the  
5           production server to obtain a plurality of computer parameters necessary to  
6           configure the production server into the highly-available data processing  
7           system.

1     41.   The method to configure a highly-available data processing system as in  
2           claim 39 further comprising the expert-system client side software agent  
3           automatically implementing a corrective action required by a plurality of  
4           default questions and rules, the corrective action and the plurality of  
5           default questions and rules comprising the expert knowledge database.

1     42.   The method to configure a highly-available data processing system as in  
2           claim 39 further comprising the expert-system client side software agent  
3           automatically generating a report of the analysis of the plurality of  
4           computer parameters using the expert knowledge database.

1     43.   The method to configure a highly-available data processing system as in  
2           claim 42 further comprising generating an HTML report of the analysis.



1     44.   The method to configure a highly-available data processing system as in  
2           claim 42 further comprising generating an XML report of the analysis.

1     45.   The method to configure a highly-available data processing system as in  
2           claim 39 further comprising automatically collocating the computer  
3           parameters into the highly-available data processing system.

1     46.   The method to configure a highly-available data processing system as in  
2           claim 45 further comprising automatically mirroring the collocated  
3           computer parameters in a second data processing system.

1     47.   A configurator of a highly-available data processing environment,  
2           comprising: a knowledge database as a computer program product stored  
3           in a computer-readable medium, the knowledge database further  
4           comprising:

5       (a)   a plurality of default questions to be answered for a data processing  
6           system to define a highly-available data processing environment;

7       (b)   a plurality of automatic analysis rules to apply to the answers of the  
8           default questions to define the highly-available data processing  
9           environment;

10      (c)   a plurality of secondary questions to be answered dependent upon  
11          the automatic analysis rules;

12 (d) a plurality of recommendations/suggestions and prescriptions of  
13 corrective actions that could be performed on the data processing  
14 system to define and set up the highly-available data processing  
15 environment.

1 48. The configurator of claim 47 further comprising: an expert analysis engine  
2 as a computer program product stored in a computer-readable medium  
3 whereby the expert analysis engine applies the knowledge database to the  
4 data processing system.

1 49. The configurator of claim 47 further comprising an interrogation agent as a  
2 computer program product stored in a computer-readable medium whereby  
3 the interrogation agent inspects and selects and stores a plurality of  
4 computer processing parameters of the data processing system and submits  
5 the plurality of computer processing parameters to the expert analysis  
6 engine for application of the knowledge database to define and setup the  
7 highly-available data processing environment.

1 50. The configurator of claim 49 further comprising a report stored in a  
2 computer-readable medium, the report comprising a description of the  
3 highly-available data processing environment inspected by the interrogation  
4 agent, and analyzed by the expert analysis engine according to the

5 questions and rules and recommendations and corrective actions of the  
6 knowledge database.

1 51. The configurator of claim 50 wherein the interrogation agent, the knowledge  
2 database, and the expert analysis engine are connected to each other across  
3 a data communications network.

1 52. The configurator of claim 47 further comprising a knowledge database  
2 management software module as a computer program product stored in a  
3 computer-readable medium whereby a user can modify the contents of the  
4 knowledge database.

1 53. The highly-available data processing environment configured by the  
2 configurator of claim 49.